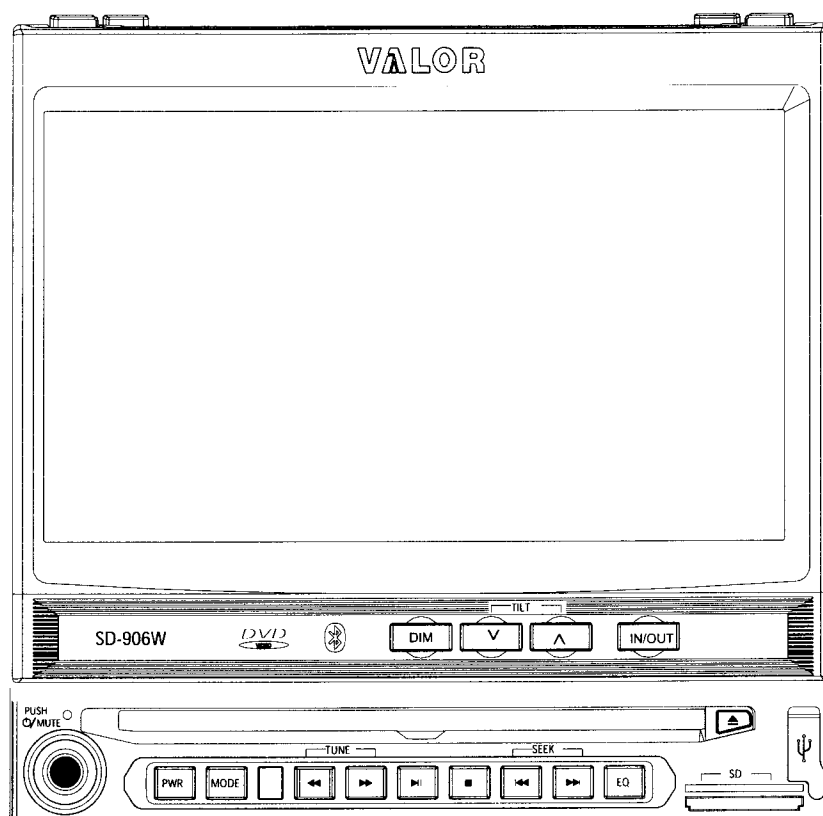# USER MANUAL

MOBILE MULTIMEDIA SYSTEM WITH 7" WIDE TOUCH SCREEN LCD MONITOR

Model: SD-906W

Table of Contents

# DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. Therefore, some functions may not work as intended. Please be sure to read instructions provided with each disc. This player has been designed to play back DVD software encoded for specific region areas. The unit will play discs labeled "Region 1" or "All".

DVD region codes:

1 - USA, Canada
2 - Japan, Europe, South Africa, Middle East
3 - Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
4 - Australia, New Zealand, Mexico, South America
5 - Eastern Europe, Russia, India, Africa
6 - China
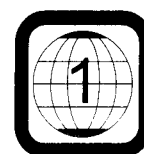
Safety Information

Please read all instructions carefully before installing or operating.

Due to its technical nature, it is highly recommended that your unit is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver from distracting. In-dash DVD video functions will be only operated when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

To prevent damage or injury:

1. Make sure to ground the unit securely to the vehicle chassis ground.
2. Do not remove the top or bottom cover of the unit.
3. Do not install the unit in a spot exposed to direct sunlight or excessive heat or splashing water.
4. Do not subject the unit to excessive shock.
5. When replacing a fuse, just use a new one with the prescribed rating. Using a fuse with wrong rating may cause the unit to malfunction.
6. To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
7. Use the provided hardware and wire harness.
8. You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
9. If you experience problems during installation, consult your nearest dealer.
10. If the unit malfunctions, reset the unit as described on page 4 first. If there is still problem, consult your nearest dealer.
11. To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the panel surface and/or remove the printing.
12. When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.

Additional notes:

1. When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG 18) or more to prevent voltage drops.
2. Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

This device complies with part 15 of the FCC rules and regulations.
Operation is subject to the following two conditions:
1) This device may not cause harmful interference, and
2) This device must accept any interference received, including interference that may cause undesired operation.
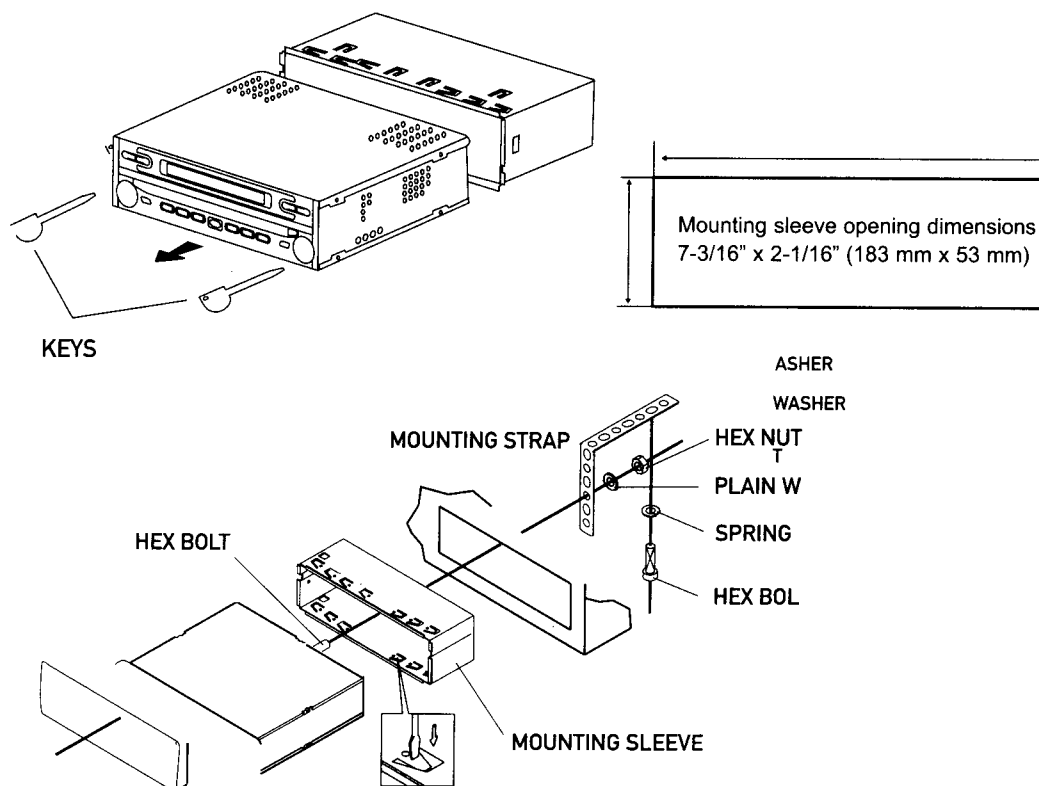
Installation

Please read the manual before installation.

Before You Start

• Disconnect negative battery terminal. Consult a qualified technician for instructions.
• Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.
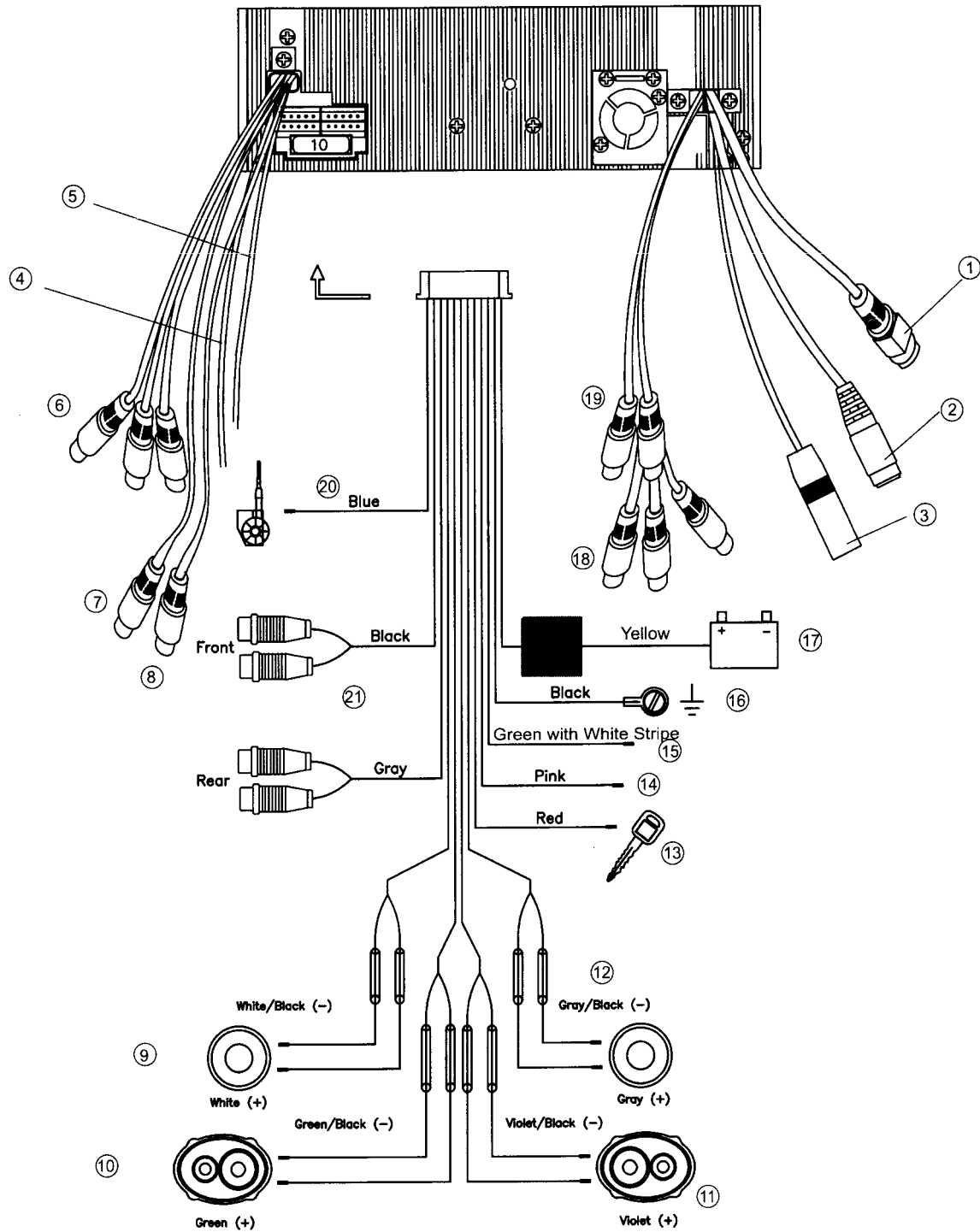
Getting Started

• Insert the supplied keys into the slots as shown, and slide the unit out of the mounting sleeve.
• Install mounting sleeve into opening, bending tabs to secure.
• Connect wiring harness and antenna as shown on pages 5-6. Consult a qualified technician if you are unsure.
• Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
• Test for correct operation and slide into mounting sleeve to secure.
• Snap trim ring into place.
• Mount the adapter to any smooth clean surface using the supplied double-sided tape or #2 x 3/8" Phillips head screws.

Mounting sleeve opening dimensions
7-3/16" x 2-1/16" (183 mm x 53 mm)

KEYS

ASHER

WASHER

MOUNTING STRAP

HEX NUT

T

PLAIN W

HEX BOLT

SPRING

HEX BOL

MOUNTING SLEEVE

TYPICAL FRONT-LOAD DIN MOUNTING METHOD

Installation

Wiring Diagram

Installation

Wiring Diagram

- Components

1. Media Device connecting cable
2. Bluetooth Microphone
3. Radio Antenna
4. Car Phone (Brown)
5. Dimmer (Orange)
6. Rear Zone Audio Out L/R & Rear Monitor 1
   * Red: Rear Zone Out R
   * White: Rear Zone Out L
   * Yellow: Rear Monitor
7. Center RCA Output(Gray) : The center output must be connected to an external amplifier for 3D or 6CH mode.
8. Subwoofer RCA Output(Blue): The subwoofer output is available in all sound/audio modes.
9. Left Front Speaker(White, White/Black)
10. Left Rear Speaker(Green, Green/Black)
11. Right Rear Speaker(Violet, Violet/Black)
12. Right Front Speaker(Gray, Gray/Black)
13. ACC Power Wire(Red): Connect to a +12 volt circuit that is only live when the ignition is on.
14. Parking(Pink): Connect to negative(-) parking brake wire. This wire MUST BE connected in accordance with the traffic law. It is the end-user's responsibility to make sure this wire is connected properly.
15. Back Camera(Green/ White)
16. Ground Wire(Black): Securely fasten the Ground wire to grounded metal part of the car's chassis. If you cannot find an existing bolt or screw to fasten it to, drill a hole in the metal and secure it with a screw. To ensure a good ground, remove any paint or greese from areas where the wire will contact the surface.
17. Constant Power Wire(Yellow): Connet the 12V PLUS constant power wire to a live 12 volt wire in the vehicle. Before making a connection, check that the wire you intend to connect to is always live, even when the car's ignition is turned off. If a live wire is not found, route the wire to the car's fuse block and connect it to a live circuit there.
18. AUX IN L/R VIDEO
19. Rear Monitor 2, Camera
20. Power Antenna Wire(Blue): Connect to a motorized (power) antenna and/or to a remote turn-on lead for an amplifier
21. Front and Rear RCA Outputs(Black/Gray)

* Replacing the Fuse

When replacing a fuse, be sure to use correct type and amperage to avoid damaging the unit. The SD-906W uses one 10 amp ATO fuse, located in the black filter box in-line with the main wire harness.
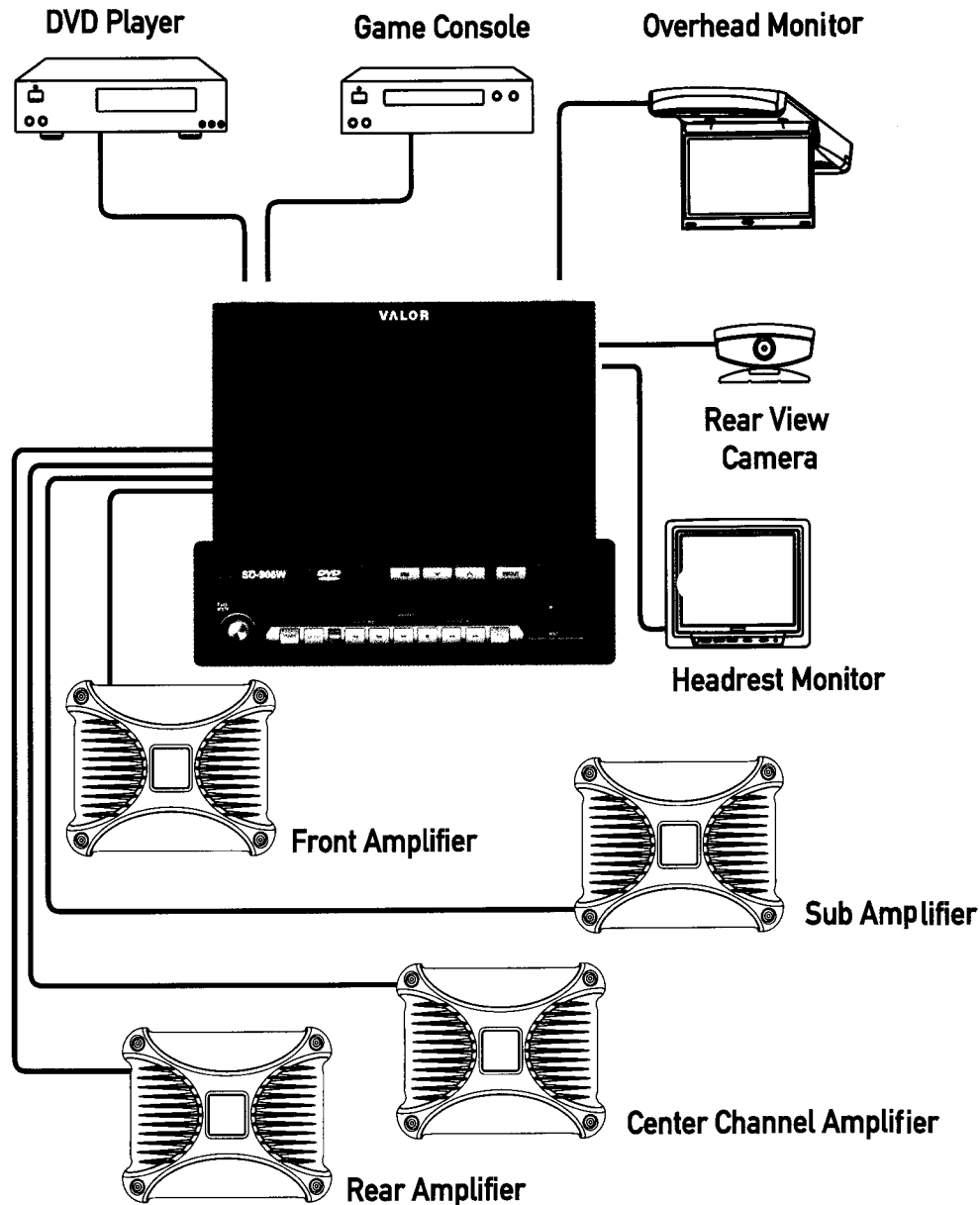
* Reconnecting the Battery

When wiring is complete, reconnect the battery negative terminal.

Installation

Wiring Diagram
- Optional A/V Connections

DVD Player   Game Console   Overhead Monitor

VALOR

SD-906W

Rear View
Camera

Headrest Monitor

Front Amplifier

Sub Amplifier

Center Channel Amplifier

Rear Amplifier

The diagram above illustrates the connection capabilities of the unit. Two separate Audio/Video inputs allow the connection of a DVD player or game console. The rear zone DVD output provides both audio and video for rear seat entertainment, while the video output provides video signal for external monitors. A rear view camera can be connected to either A/V input to provide assistance when backing up your vehicle. Visit your local dealer for more details.

* All items shown above are optional and sold separately.

Main Unit Display

Monitor Closed
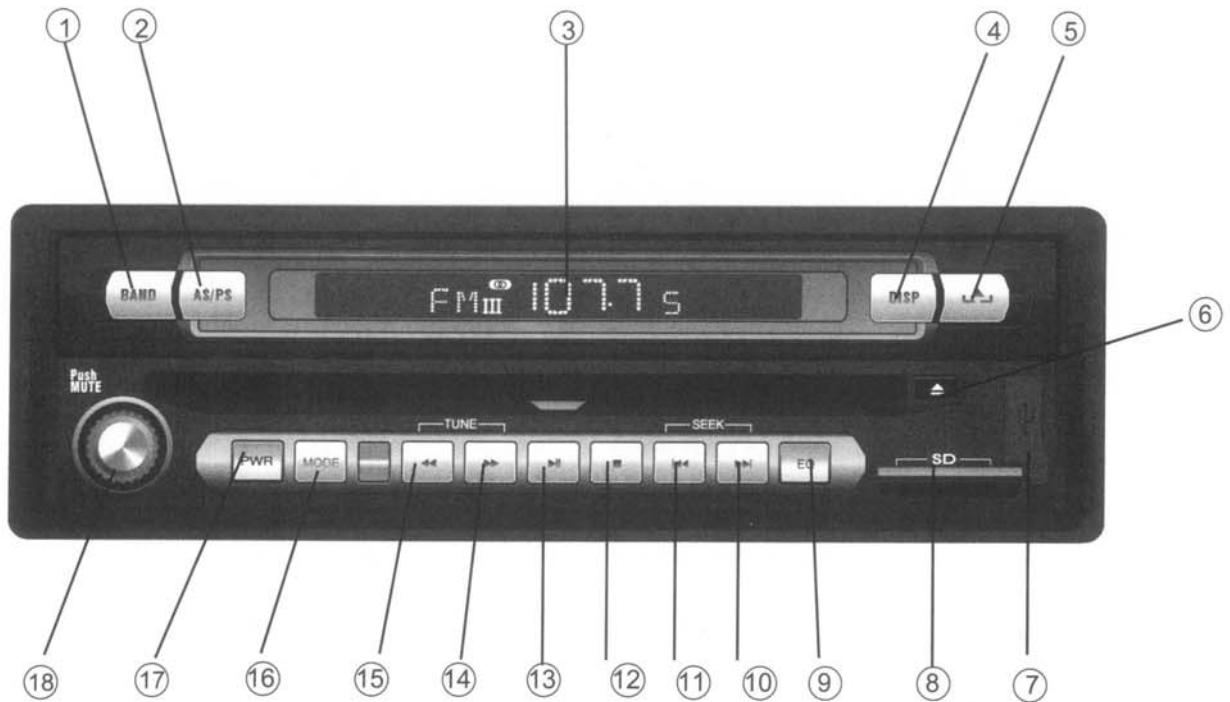
|	
① Band	⑩ Chapter / Track Up
② AS / PS (Auto Store/Preset Scan)	⑪ Chapter / Track Down
③ Secondary LCD	⑫ Stop
④ DISP (Display)	⑬ Play / Pause
⑤ Open / Close Monitor	⑭ Fast Forward
⑥ Eject	⑮ Fast Reverse
⑦ USB Port	⑯ Mode
⑧ SD Card	⑰ Power
⑨ EQ	⑱ Mute/Volume

Monitor Notes:

This model incorporates a motorized moving monitor. Before final installation, make sure the monitor will not obstruct the dash, shifter or any other controls.
Upon installation, do not attempt to move the monitor up/down by hand. Use the ANGLE ▲▼, OPEN and IN/OUT buttons on the front panel only.

Main Unit Display

Monitor Open
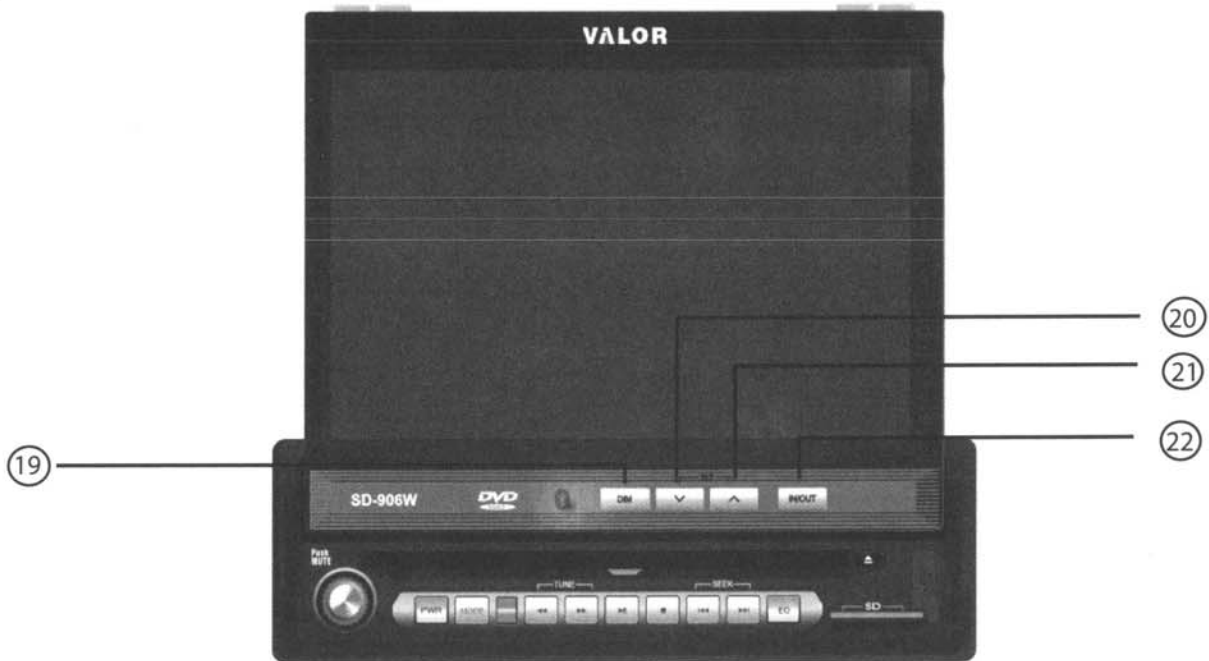
(19) DIM - Press to change brightness level of LCD backlight.

(20) TILT DOWN- Press ▼ to decrease the monitor view angle.

(21) TILT UP- Press ▲ to increase the monitor view angle.

(22) IN/OUT - Press to move the monitor forward and backward.

Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged.

* It is illegal in most states for the driver to view video while the vehicle is in motion.

Remote Control
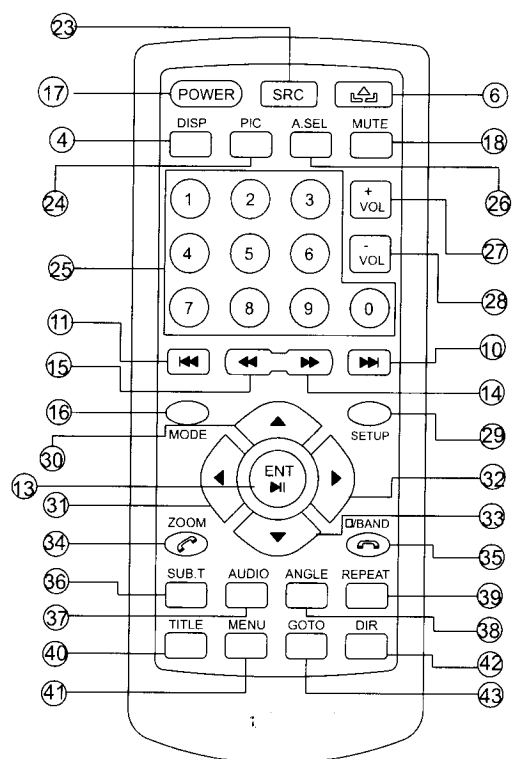
④	Display	㉓	SRC	㉝	Direction Key [Down]
⑥	Eject	㉔	Picture	㉞	Zoom / Call
⑩	Next Chapter	㉕	Number Key	㉟	Stop / Band / Hang up
⑪	Previous Chapter	㉖	Audio Select	㊱	Subtitle
⑬	Enter / Play	㉗	Volume Up	㊲	Audio
⑭	Fast Forward	㉘	Volume Down	㊳	Angle
⑮	Fast Reverse	㉙	Set up	㊴	Repeat
⑯	Mode	㉚	Direction Key [Up]	㊵	Title
⑰	Power	㉛	Direction Key [Left]	㊶	Menu
⑱	Mute	㉜	Direction Key [Right]	㊷	Direct to Folder
				㊸	Goto

* The buttons with same number as previous pages indicate that they have same functions.

General Operation

POWER On/Off

Press POWER or any other button (except OPEN) to turn the unit on. Press and hold POWER for more than 2 seconds to turn the unit off.

Monitor OPEN/CLOSE

Press OPEN to open or close the monitor. The unit will emit 1 confir--mation beeps. Be careful not to touch the monitor during the open/close sequence.

Notes:
- The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press OPEN again to resume the monitor open/close sequence.
- Pressing OPEN will also turn the unit on and open the monitor.
- Audio can be heard while the monitor is closed.

Monitor IN/OUT

Press the IN/OUT button to move the monitor "IN" and "OUT"
The monitor will move to a 90 degree position first when the angle of the monitor and the deck is less than 90 degrees.

Notes:
- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, PARKING will show on the display when the vehicle's parking brake is not engaged. DVD, AV1 and AV2 audio can still be heard even though the vehicle is in motion.
- The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver's dis--traction. In-dash video only functions when vehicle is in Park or the parking brake is engaged. It is illegal for drivers in most states to watch video while driving. Refer to local laws in your area.

Monitor TILT Position

With the monitor open, pressing TILT ▲ to increase view angle of the monitor, and pressing TILT ▼ to decrease view angle of the monitor . The monitor angle can be adjusted in 6 different positions.

Notes:
- Do not attempt to move the monitor up/down by hand, which will cause severe damage to the unit. Use the front panel buttons or the remote control only.
- The color of the LCD monitor varies in different viewing angles. Select an angle with the most optimum view for your location.
- When turning off, the last position of the monitor can be remem--bered that the unit will return to the last position automatically when turned on in the next time. See Page14 for details.

General Operation

**Monitor Angle Position
(Left/Right)**

To adjust the monitor positon Left/Right:
- Make sure the monitor is in the "OUT" position.Press IN/OUT
- Grasp both side of the monitor near the bottom and gently pull on side until the mechanism is fully extended.

To return the monitor mechanism to the "closed" position
- Grasp both side of the monitor near the bottom and gently push on the side that is extended until the mechanism is closed.
- A slight click will heard when the monitor mechanism is closed. Refer to the diagram below.
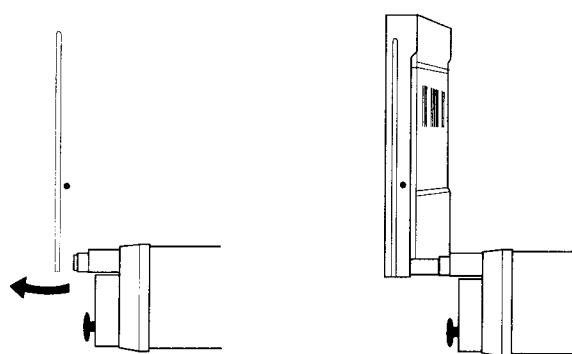
Mechanism Closed   Mechanism Fully Extended

Mode

Press MODE to select between RADIO, DVD, AVX inputs or other functions that available. Mode operation are indicated on the OSD (On Screen Display) or on the secondary LCD.

**Optional Mode
Selection**

With the monitor open, press the screen to display the OSD menu bar and press RADIO,DVD,AV or AV2 in the OSD menu bar to select the desired source.

Volumn

Adjust volume by rolling the volumn button in the front.

Mute

Press MUTE to silence audio.And the MUTE icon will appear in OSD Press MUTE button again to cancel the MUTE status.

Dimmer

Press DIM to adjust the backlight level of TFT LCD.
(1 minimum / 5 maximum).

Display

With the moniter under closed, pressing DISP can display the clock or the radio rate in the secondary LCD. The DISP function does not work when the monitor is open except in the DVD mode. Press the DISP When it's in DVD mode, it will show the information of the DVD and the general operation buttons in display.

General Operation

Clock Set

With the monitor closed:
1. Press DISP button(4) to display the clock.
2. Press and hold DISP button(4)until a confirmation beep is
                         heard, then release.
3. Press▲ or ▼ to adjust the hours and◄ or ► to adjust the minutes.

Main Setup Menu

Enter/Exit Main Setup Menu

1. Press MAIN SETUP in the mode selection display.
2. Press ➟ in left side of screen to exit setup mode and return to the last screen. There is three available subjects of setup to select., which are General, ASP, Video.

General

Once enter the MAIN SETUP menu, it will be displayed as General screen.
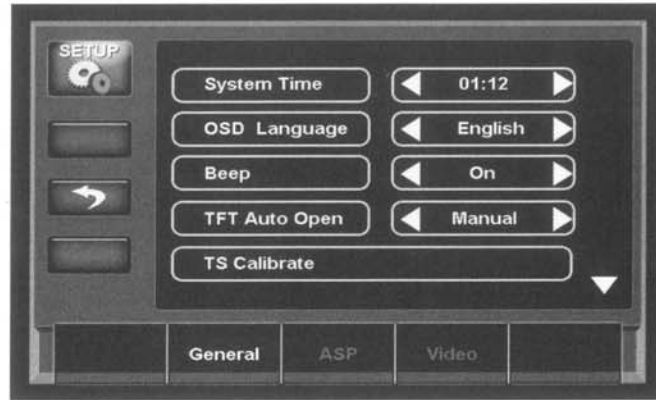
System Time

Press the Syetem Time menu bar on screen to open Clock Adjustment display.
Press ◄ , ► in display to set the hour and minute.
Press 24H/12H in display to select a display time way between 12/24(AM/PM).
Press Reset in display to reset the second count to Zero.
Press ➟ in display to complete setting time and go back to menu display.

OSD Language

Press the OSD Language menu bar in display and use ▲ or ▼ to select a desirable language.

Beep

Press the Beep menu bar in display to activate the menu selection.
Press ◄ or ► to select On/Off for turning on/off the touch screen beep sound.

TFT Auto Open

Press TFT Auto Open menu bar on screen and select the "Yes" and "No".
If you select "Yes", the TFT will open automatically when turn the set on.
If you select "No", the TFT will open automatically when turn the set off.

TS Calibrate

1. Press TS(Touch Screen) Calibrate menu bar on screen to open the TS Calibrate window as below which asks Yes/No for start.
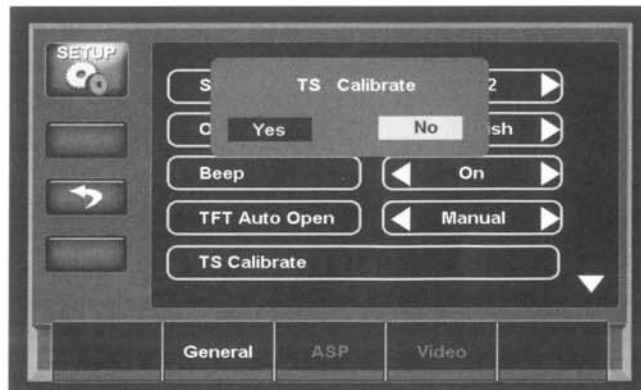
2. Press Yes to start touch screen calibration.

Main Setup Menu

3.Press □ at up-left, dwon-left, down-right and up-right corner on screen as displayed below.

Please press point A at upper left corner

Please press point B at lower left corner

Please press point C at lower right corner

Please press point D at upper right corner

Use Default Settings

Press Use Default Settings menu bar on screen to choose YES/NO. Press Yes to reset the unit, which will be turned off automatically.

ASP

At the bottom part of the screen of MAIN SETUP menu, there are three available items: General, ASP, Video.
Press ASP item to display audio setup menu.

Bass Cent Freq

To change the Bass Cent frequency from 60Hz, 80Hz, 100Hz, 200Hz.

Bass Q Value

Press Bass Q Value to activate the Bass Q Value bar and select wanted value by using ◄ or ► .
* It will turn into yellow when activated.

Bass DC Gain

To select On/Off by using ◄ or ► .

TREB Cent Freq

To change the Cent frequency from 10KHz, 12.5KHz, 15KHz, 17.5KHz

LOUD Cent Freq

To change the Loud frequency from 400Hz, 800Hz, 2400Hz.

Power On Volume

Press ◄ , ► by Power On Vol menu bar on screen to set the volume when power on. You can select Fixed or Last Volume.
- If you select "Last Vol", the last volumn will be heard when you turn on the set.
- If you select "Fixed" at Power On Vol setup menu, you can select the volume level by pressing ◄ , ► in the belowing. Fixed Vol menu bar on screen.

Fixed Volume

Press ◄ , ► to select the fixed volumn level from 10 to 30.

VIDEO Operation

VIDEO

At the bottom part of the screen of MAIN SETUP menu, there are three available items: General, ASP, Video.

Press Video item to display audio setup menu.
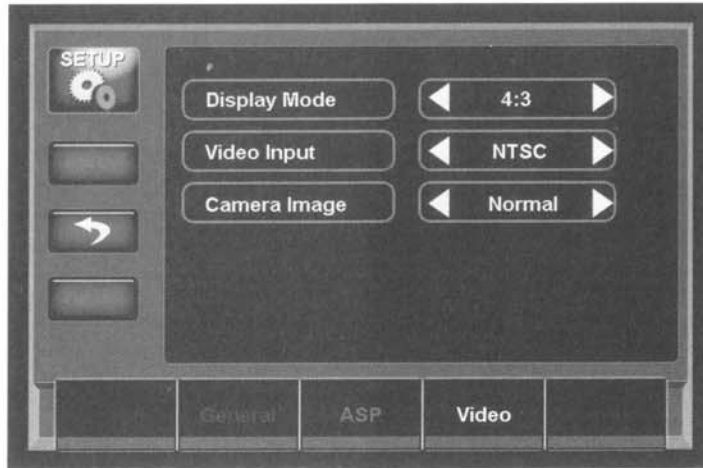
Display Mode

Press ◀ , ▶ on Display Mode menu bar on screen to select the display aspect of 16:9 or 4:3.

Video Input

Press ◀ , ▶ on Video Input menu bar on screen to select from AUTO, PAL and NTSC.

Camera Image

Press ◀ , ▶ on Camera Image menu bar on screen to select Normal or Mirror. If you select "Mirror", the image reflected by camera will be reversed as the image seen through mirror.

Radio Operation

Radio

When you turn on the unit at first, radio mode will displays on screen automatically.

- If the radio mode is wanted when the user in other mode, press MODE button (16) in remote control or press the mode icon at up-left side of screen to go back to the mode selection display to find radio mode icon.
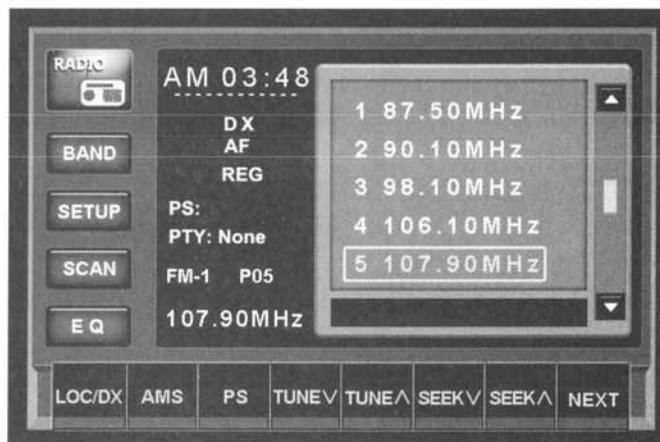
Band

Press BAND button(1) on the remote control or BAND on screen, the current band will change among AM band and FM3 bands in display.

Automatic Scanning

Press SCAN in display to start scanning broadcasting stations in the current band. And the unit will scan the strongest top 10 ratios to be stored in the list on the right side of screen.

Manual Scanning

There are two ways to do the scanning manually, which is TUNE and SEEK.

- TUNE
  Press TUNE ∧ , TUNE ∨ at downside in display to change the radio frequency up/down manually by one step in the current band.

- SEEK

  Press SEEK ∧ , SEEK ∨ at downside in display to seek the radio frequency up/down. When strong signal's radio station is found, it stops for 3 seconds each.

  Press SEEK ∧ , SEEK ∨ again or ENT button(13) to stop seeking and listen to the current broadcast.

Radio Operation

EQ

Press EQ button to enter the Audio Adjust screen.
EQ has 5 basic different audio effects, which are User, Classical, Rock , Jazz and Pops.
The user can adjust the FAD(Fade), BAL(Balance) and LOUD(Loudness) by pressing ◀ , ▶ .

- If you select User, the Bass and Treble bars are activated. The user can select from -7 to 7 levels of Bass and Treble effect.

LOC/DX

Press LOC/DX to change the sensibility of the unit. When select LOC, the sensibility will decrease to 20dB.

   * LOC - Local wave   * DX - Distance wave

-Stereo Broadcast (ST)

When ST appears at upside of display, it's stereophonic broadcasting. If not, it's monophonic broadcasting.

- Using Preset Stations
  Ten numbered preset buttons store and recall stations for each band.
  All ten stored stations for the current band appear on the
  TFT screen.

- Storing Station

1. Select a band(if needed), then select a station.
2. Press to hold 1~0 buttons in remote control or 1~10 of station listed on rightside in display (Press ▼ on the list to choose the number) for 3 seconds to store each station's frequency to the number.
3. To listen to a corresponding stored station, press 1~0 buttons in remote control or 1~10 in display.

AMS/PS

- AMS (Automatic Store)

Select a band and hold on AMS item for more than 3 seconds to activate the Auto Store function, which will search six strong stations in the current band and store them automatically in the list.

When activating this fuction, the yellow charactor "AS" appears instead of the time on the upper-side of the screen.

- PS (Preset Store)

Scan stored stations in the current band.
- Select a band (if needed).
- Press PS shortly in display to activate the Preset Store function.
  It will stay 3 seconds at each preset station.
- Press PS again to stop scanning in the current band when a desired station is found.

RBDS Operation

TA
(Traffic
Announcement)

TA lets you receive traffic announcements automatically, no matter what source you are listening to at the moment. TA can be activated for both a TP station or an enhanced other networks TP station.
- To turn TA off/on, touch TA in screen.
- When recieving Traffic Announcement, if the volume is low than 16, it will be changed to 16. And, except Volume and MENU control functions, other control can not be operated by screen, remote control and the unit, until TA is turned off. If you press other key during TA is on, unit will sound warning beep.

* Refer to Radio part for other functions as AS/PS, TUNE, SEEK, etc.
Press NEXT in screen to display the menu.

REG
(Regional Mode)

When AF is used to retune frequencies automatically, the regional function limits the selection to stations broadcasting regional programs.
- To turn REG off/on, touch REG in screen.

AF
(Alternative
Frequency)

When switching to RBDS mode, AF is flickering and on as a default.
When AF is on, if the current signal is weak or there are other problems, the unit will automatically search for a different station in the same network which has a stronger signal.
- To turn off/on, touch AF in screen.

(Program Type)

You can turn in a station by using PTY information.

- Touch PTY in screen.
- Program type list will be displayed on screen. You can search for a specific type of broadcasting program, such as those listed on the next page.

- Touch ▲ or ▼ at leftside of screen to select a program type.
- After choosing type of program, you can tune or seek station within the selected type.

- Program Type List

- None	- News	- Affairs	- Info	- Sport
- Educate	- Drama	- Culture	- Science	- Varied
- Pop M	- Rock M	- Easy M	- Light M	- Classics
- Other M	- Weather	- Finance	- Children	- Social
- Religion	- Phone In	- Trevel	- Leisure	- Jazz
- Country	- Nation M	- Oldies	- Folk M	- Document

RBDS Operation

TA Volume   You can select volume between 0~39.
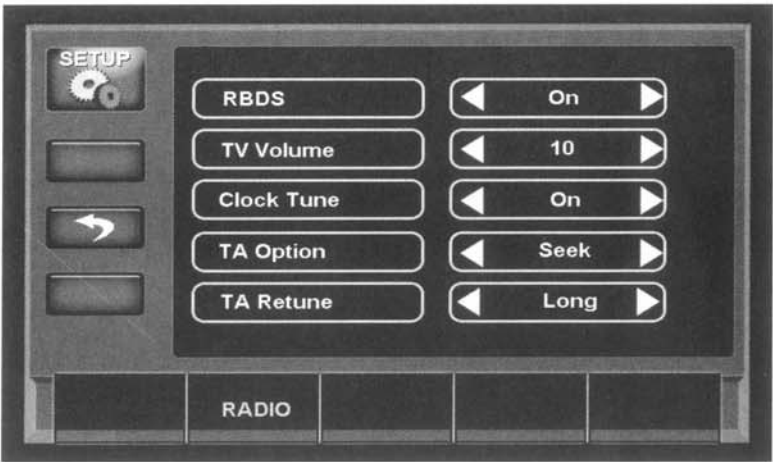
Clock Tune   Select "On", when you drive to different place, clock can adjust automatically.

TA Option   Seek / Alarm.

TA Retune   Long / Short.

CD Player Operation

CD Mode

Press MODE button(16) in remote control or touch the mode icon at up-left corner of screen to go to the mode selection display, and press DVD mode icon.(DVD mode icon is only activated when already inserted a disc.)

Disc Insert/Eject

Place CD, label side up, into the disc slot. After inserting the disc, playback starts automatically and the CD mode's playback display shows. To stop the playback and eject the disc, press Eject button.

Play/Pause

Insert a CD, the unit will play it automatically. When playing a disc, press once ▶II button(13) in remote control or ▶IIon screen to pause, and press again to play again.Track list will be displayed at right side of screen. When moving track, press ◄◄,▶▶ to move to previous/next track and press ▲ , ▼ to move to previous/next track list. Press the track you desired directly to play.

Stoping play

Press ■ button(35) in remote control or■ /▲ in display once for prestop, and press twice to stop playing.

Moving Track

Press I◄◄ button(11) in remote control or I◄◄ in display to move to previous track.
Press ▶▶I button(10) or ▶▶I in display to move to next track.

Fast Forward / Fast Reverse

Press ◄◄ button (15) in remote control or NEXT, ◄◄ on screen for fast reverse, increasing playback speed rate at X2, X4, X8, X16, Play (normal) by pressing more. Press ▶▶ button(14) in remote control or NEXT, ▶▶ on screen for fast forward, increasing playback speed rate at X2, X4, X8, X16, Play(normal) by pressing more.

CD Player Operation

Repeat Play

Press REPEAT button(39) in remote control or NEXT, REPEAT on screen to repeat the current track. "Repeat Single" will be displayed shortly on screen.Press again to repeat the full contents of disc. "Repeat All" will displayed. Press third time to go back normal play. "Off" will displayed.

Random Play

Press NEXT, ⊠ in display to play all tracks on the disc in random, displaying "Random" on screen.Press again to release random play function, displaying "Normal" on screen.

Intro Scan

When disc playback, press NEXT, INTRO below in display to play 10 seconds each from current track. "Intro" will be displayed shortly on screen.Press INTRO again to stop scanning, displaying "Intro Off" on screen.

MP3/ WMA Player Operation

Mp3/WMA Player

You can play MP3/WMA files stored in disc/SD card/USB.

Functions as play, pause, stop, track selection, fast forward/reverse, repeat play, intro scan, random play, etc. are the same for MP3/WMA and CD operation. Please see the CD player operation section for the instruction about these functions.

After MP3/WMA disc/SD card inserted or USB connected, "MP3" or "WMA"and its information displays on screen and the file in disc will be played automatically.

Move Folder

When playing WP3/WMA, press RETURN in screen or press DIR button (42) to stop the playing and move to folder list.

* Note: CD-R/RW must conform to the ISO9660 level 1 or level 2 format Romeo Joliet. When naming files, be sure the file name extension is "MP3" or "WMA".

DVD Player Operation

DVD Player

When the unit is properly installed, DVD video cannot be displayed on the main TFT screen unless the parking break is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays "WARNING! PITURE OFF FOR YOUR SAFETY" with a blue background.

   * Rear video(installed for backseat), if applicable, will operate normally.

   * Functions as switching mode, disc insert/eject, play, pause, stop, selecting track, fast forward/reverse, etc. are the same for CD operation. Please see the CD player operation section for the instruction about these functions.

Enter DVD Root Menu

1. Insert DVD disc and DVD menu will display in screen.
2. Press Direction Key and ENT button to select menu and operate it, or press the desirable menu on screen to play it.
3. If you want to go back to the DVD root menu in the middle of playing video, press MENU button in remote control or NEXT, ROOT in screen.

Display / Hide DVD Menu Bars in Screen

When playing DVD video, the screen hides DVD menu bars.
1. Touch screen to display DVD menu bars in screen.
2. Touch 🔜 to hide the menu bars in screen, or after 10 seconds from no touch screen, it disappears automatically.
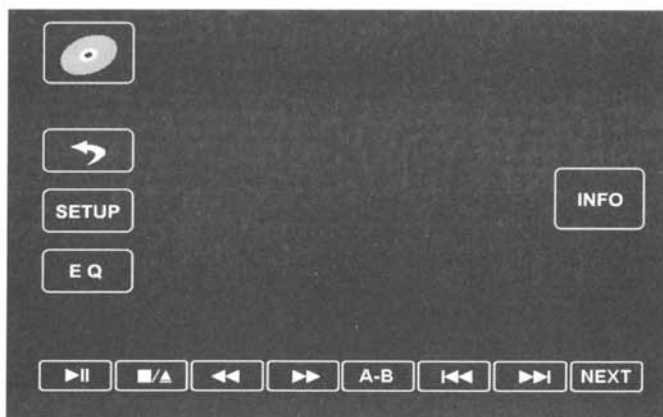
Display DVD Information

Press INFO in screen or DISP button(4) in the remote control to display DVD information as track, audio, subtitle, etc. on screen.

Section A-B Repeat Play

You can set a section in track and play the section repeatedly.
1. When playback, press A-B in screen to initialize the starting point for section repeat function, displaying "Rep A-" on screen.
2. Press A-B again to memorize the ending point for sectional repeat function and play the section, displaying "Rep A-B" on screen.
3. Press A-B third times to release the function, displaying "Rep Off" on screen.

DVD Player Operation

Go to Title Menu

Press TITLE button(40) in remote control or NEXT, MENU on screen to go to DVD title's starting menu.
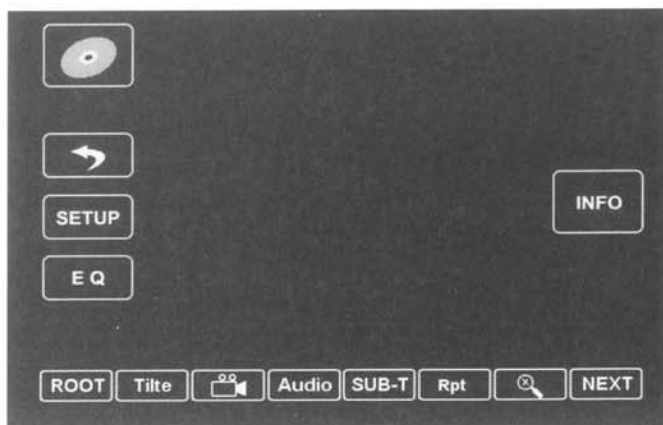
Selecting Angle

Press ANGLE button(38) in remote control or NEXT, on screen repeatedly to view multiple picture angles recorded in disc in sequence.

Selecting Subtitle

Press SUB.T button(36) in remote control or NEXT, SUB-T on screen repeatedly to display subtitles recorded in sequence.

Repeat Play

Press REPEAT button(39) in remote control or NEXT, REPEAT on screen to select Repeat Single - Repeat All - Off.

Zoom

Press NEXT, in screen for zooming in screen.

GOTO
(Direct Access)

You can select the desired track directly.
1. Press GOTO button(43) in remote control for opening direct access display. Title search menu highlighted and selected first in the display.
2. i) Using the remote control :
   * Using Direction key(30~33), you can move the selection : Title - Chapter - Time - . Select one of Title/Chapter/Time.
   * Press Number key(25) and ENT button(13) to go to the desired position directly.
   ii) Using touch screen :
   * Touch the menu bar-Title/Chapter/Time to select the menu and open number key pad(0~9, RTN, ENT).
   * Touch the desired number and ENT.

DVD Player Operation
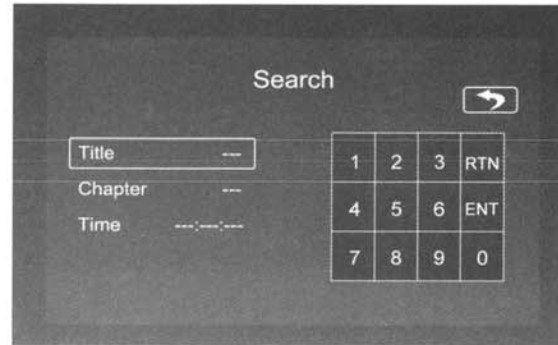
DVD SETUP

1. When playing DVD/CD, press SETUP button(29) in remote control or press SETUP in screen to show DVD SETUP display.

2. After set up, to go back to DVD playback, press SETUP button(29) in remote control or ➡ at up-right side of screen. If no response for 10 seconds, it will automatically go back to DVD playback.

Set Rating PWD

The Set Rating PWD and Parental Control is concering with the DISC setup of the DVD.

1. Press Set Rating PWD(Password) bar menu on screen.
2. Enter 8888 and ENT in the keypad displayed in screen.
3. Press Set Rating PWD bar in screen again. The bar letters will change to "Enter New PWD".
4. Enter 4 digit number which you want to set newly and ENT in the keypad in screen.

DVD Player Operation

Parental Control

You can set parental control to keep children from harmful video.
1. Press Parental Control menu bar in DVD setup display.
2. Number keypad will be displayed for entering password before setting.
3. Press ◀, ▶ by Parental Control to set one control grade among 8.Adult /7.NC-17 / 6.R / 5.PG-R / 4.PG-13 / 3.PG / 2.G / Kid Safe.

AUDIO ADJUSTMENT

The following contents are about the AUDIO ADJUSTMENT of DVD

Downmix

1.When the disc supports 5.1CH sound effect, Downmix menu would be activated on screen. If it is deactivated at the setup menu display, you cannot select this menu option, while it is already applied "On" automatically by unit.
2. Press ◀, ▶ by Downmix menu bar in screen to select On/Off.

Dolby Prologic II

Dolby Prologic II technology processes any high quality stereo (2CH) movie and music audio into five playback channels(5.1CH) of full-bandwidth surround sound. Therefore when listening to typical two-channel sources like CD, the listener can enjoy a richer spatial effect
- Press ◀, ▶ by Prologic II menu bar in screen to select On/Off.

* Audio Adjustment - Dolby Prologic II

1. Select "On" of Prologic II in DVD setup menu.
2. Press A.SEL button(26) in remote control or EQ on screen when disc playback.
3. Select your preference in the Audio Adjust menu display by pressing Direction key(30~33) in remote control or touching screen. You can select the audio effect type of Dolby Pro Logic II among the menu as below.
   - Mode : Pro Logic / PLII Matrix / PLII Movie / PLII Music
   - DRC : On / Off
   - When you selected PLII Music mode, there would be activated some menu as below.
     PANOR : On / Off
     Dim Ctrl : 0 ~ 6
     C W Ctrl : 0 ~ 6

DVD Player Operation

Dolby 5.1CH

Some discs support 5.1-channel Dolby Digital surround sound. When this kind of disc is inserted the unit, you can adjust the 5.1-channel audio effect on your preference.

1. It should be selected "Off" of Prologic II and Downmix in DVD setup menu for enjoying 5.1CH sound effect.
2. Press A.SEL button(26) in remote control or EQ in screen when disc playback.
3. Select your preference in the Audio Adjust menu display by pressing Direction key(30~33) in remote control or touching screen.
   - Volume : 0 ~ 40
   - Left / Right / Center / L Surr / R Surr / SubW : -7 ~ 7
   - DRC : On / Off

Video Type

1. Press ▼ at rightside of DISC setup menu to find out "Video Type" bar.
2. Press ◄ , ► by Video Type menu bar on screen to select one type among Fill / Original / Height Fit / Width Fit / Auto Fit / Pan Scan.
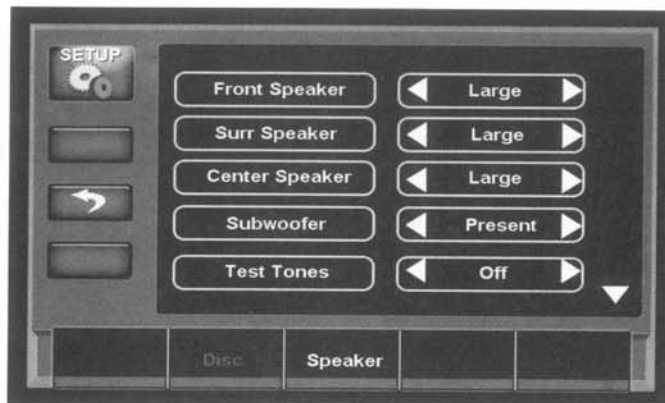
DVD Player Operation

Disc Language Setup

After language setup at DVD setup mode, when playing disc, the selected language will be applied/shown. (if available at the disc)
- Subtitle / Audio / DVD Menu :
  Press ◀, ▶ by the menu bar on screen to select a desired language.

Speaker

After entering DVD setup mode, press Speaker display on screen to show speaker setup menu.

Speaker Volume Setup

- Front Speaker : Press ◀, ▶ to select Large or Small.
- Surr Speaker : Press ◀, ▶ to select Large or Small.
- Center Speaker : Press ◀, ▶ to select Large, Small or None.
- Subwoofer : Press ◀, ▶ to select Present or None.

Test Tones

Press ◀, ▶ by Test Tones in screen to select a speaker and perform test.

Bass Manage

1. Press ▼ at rightside of Speaker setup display to turn to the second page menu.
2. Press ◀, ▶ by Bass Manage menu bar to select Off/On.
3. When selected On at Bass Manage, Center Filter menu will be activated.
   Press ◀, ▶ by Center Filter menu bar to select the center filter value of bass from 80 ~ 300.

Speaker Delay

Center Speaker Delay : Press ◀, ▶ by Cent Spkr Delay menu bar in screen to select the center speaker delay range.
Surround Speaker Delay : Press ◀, ▶ by Surr Spkr Delay menu bar in screen to select the center speaker delay range.

DVD Player Operation

Speaker Channel Gain

Front Left Channel Gain : Press ◀, ▶ by FL CH Gain menu bar in screen to adjust the front left speaker's volume effect.

Front Right Channel Gain / Center Gain / Rear Left Channel Gain / Rear Right Channel Gain / Subwoofer Gain :

1. Press ▼ at leftside of Speaker setup display to turn to the third page menu.

2. Press ◀, ▶ by FR CH Gain / Center Gain / RL CH Gain / RR CH Gain / Subwoofer Gain menu bar in screen to adjust the speaker's volume effect.
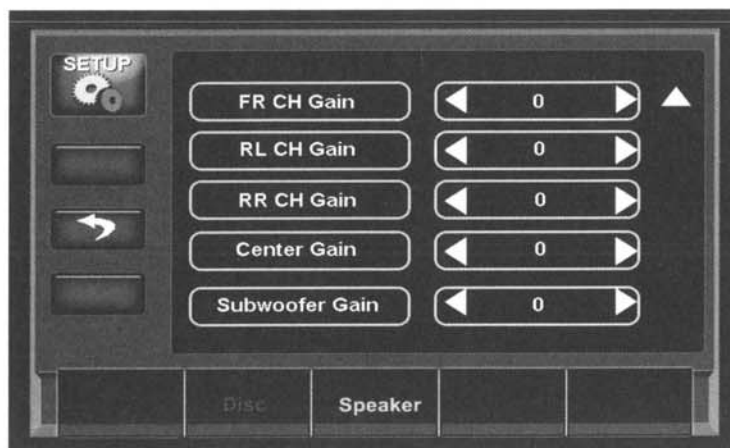
DVD Player Operation

* Here are some tips for OSD(On Screen Display). It is convenient for operation.We can divide the screen into several areas as below.
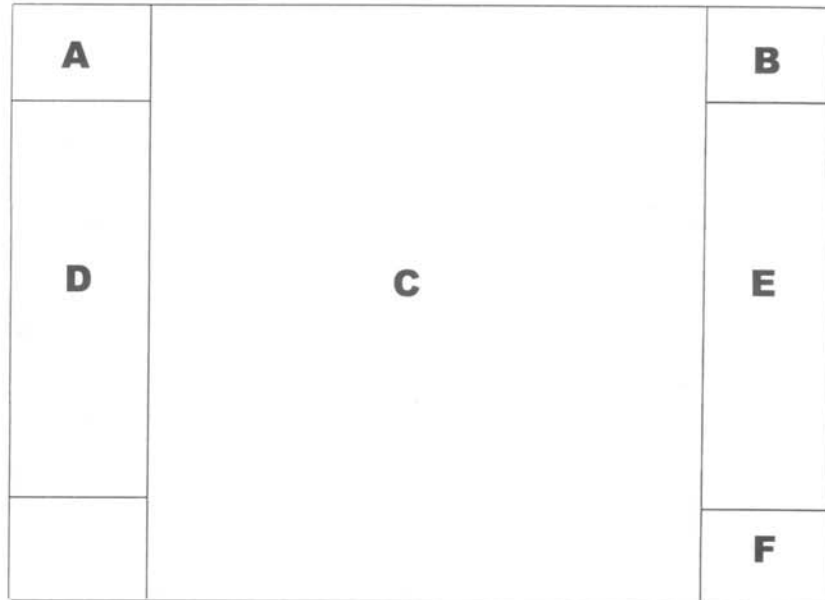
Touch A area, launcher MENU will appear.
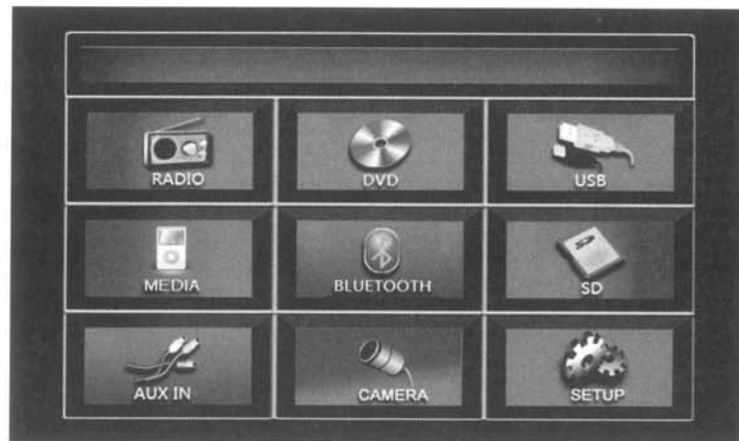
Tounch B area, SETUP MENU will be showned(26).

Touch C area, DVD Menu will be showned(Page24 and 25).

Touch D area, you can operate Chapter down function.

Touch E area, you can operate Chapter up function.

Touch F area, you can go to Search Menu(Page26).

JPEG Operation

You can see JPEG file stored in disc/SD card/USB.

When using a disc, it should be operated in DVD mode. When using SD CARD , select the corresponding mode at mode selection display.
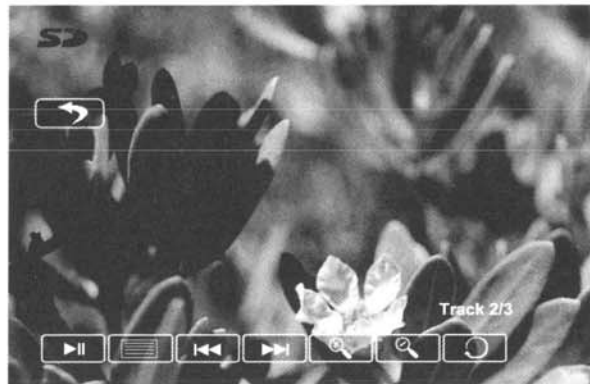
Slide Show Operation

1. When JPEG mode is played, slide show will be operated automatically. A slide stops for 5 seconds and goes to next file in alphabetical / number order of file name.
2. Press ▶ll button(13) in remote control or ▶ll in screen to play/ pause.

3. Press ■ button(35) in remote control or ▤ in screen to stop playing. Folders and file list will be diplayed.
4. Press I◀◀ button(11) in remote control or I◀◀ in screen to display previous picture.
5. Press ▶▶I button(10) in remote control or ▶▶I in screen to display next picture.

Zoom In/Out

1. Press ZOOM button(34) in remote control or ◙ in screen for zooming in.
2. Preess ◙ in screen for zooming out.

Rotating Display

1. Press ◙ in screen to turn current picture 90 degree in a clockwise direction.
2. The picture will be turned 90 degree each by pressing more.

USB/SD Card Operation

Play Each Source

Press MODE button(16) or press the current mode icon at up-left of screen to go to mode selection display and press USB / SD card mode icon.

According to the source stored in USB or SD card, you can play it. The source types compatible with this unit are in specification on page .

BLUETOOTH Operation

Bluetooth Mode

This unit supports Bluetooth wireless connection with a bluetooth cell-
-ular phone.

Note:

- Before using the bluetooth function in unit, please check that microphone
  is installed to this unit.
- Digital noise & echo suppression system built-in.
- Provides the best sound clarity with little or no distortion. (Echo and
  side-tone might be sensitivity depending upon cellular phone's
  characteristics or service networks)
- Full duplex conversation
- Bluetooth version 2.0

Press MODE button(16) in remote control or touch the current mode icon
at up-left corner of screen to go to mode selection display, and press
BLUETOOTH mode icon in screen.
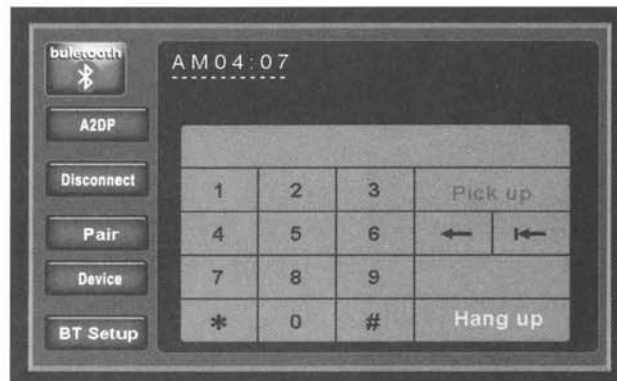
Bluetooth Setup

Before using bluetooth function in this unit, you should first turn on
bluetooth function at Bluetooth setup menu.
1. Press SETUP in screen to display Bluetooth setup menu.
2. Press ◄, ► by Bluetooth menu bar in screen to enable bluetooth
   function.
   And then, three other bluetooth setup menu will be displayed below,
   and Bluetooth icon 🔵 always appears at up-left corner(by mode icon)
   in screen.
   - Auto Connect : Press ◄ , ► by Auto Connect menu bar to choose
                    On/Off.
   - Auto Answer : Press ◄, ►by Auto Answer menu bar to choose
                    On/Off.
   - Bluetooth Level : Press ◄ , ► by Bluetooth Level menu bar to choose
                       the level from 0~6.

BLUETOOTH Operation

Pairing

1. Click Pair in screen to have the unit prepare starting pairing. It will display "Waiting for Pairing" in screen.
2. Enable your cellular phone's bluetooth pairing. If the cellular phone requires the pin code, enter 1 2 3 4.
3. It will display "Pair OK " on screen when the paring is completed.

* In case of failure of pairing
  - Delete item in paired list on your Bluetooth cellular phone
  - Reset both cellular phone and this unit by switching on/off
  - Restart pairing as per previous procedures.
* Should your cellular phone battery be at low charge, the Bluetooth connection may occasionally be lost. To maintain good connectivity ensure that your cellular phone battery is adequately charged.

Disconnect

To disconnect Bluetooth link, just click DISCONNECT on screen.

Make a Call

(Unavailable if pass-word stored in the cellular phone)
1. Enter phone numbers in Dial Pad in screen or by using remote control.
   - ← on screen means erasing a number just entered.
2. Press Pick Up in screen or ✆button(34) in remote control for calling.
3. Talk through the supplied microphone.
4. Press Hang Up in screen or ✆button(35) in remote control to hang up the call displaying "Call End" on screen.

Receive a Call

1. When the unit is ringing, "Answer?" appears on screen.
   Press Pick Up on screen or ✆ button(34) in remote control for calling.

   - If ringing in other mode such as DVD, Radio,... this unit automatically change into Bluetooth mode. After phone conversation, it also resume back to the previous mode after 5 seconds delay time as below image.
   - Even though making a call by cellular phone, not by this unit, this unit would activate automatically, showing "Talking" in screen.
2. Talk through the supplied microphone.
3. After finishing conversation, press Hang Up on screen or ✆ button (35) in remote control to hang up the call displaying "Call End" on screen.

Call Transferring

During conversation, for privacy or any other reason, you can transfer the call between the unit and your cellular phone by pressing I← on screen.

Media Device Operation

Note:
- You should connect your Media Device with this unit first using the cable supplied.
- After connecting Media Device the current mode will change to Media mode and the unit will start playing the selected list or play all files registered on the Media Device if no selected list.
- The unit will not operate, or may operate improperly with unsupported versions.
- When the Media Device's internal battery becomes depleted, the Media Device cannot be played even if connected to the unit. This unit cannot be used to recharge the iPod.
- Playback functions as play, pause, stop, track selection, fast forward/ reverse, repeat play, intro scan, random play, etc. are the same for Media Device and CD/DVD operation, please refer to the CD/DVD player operation section for the instruction about these functions.

Switching to Media Device

1. Press VIDEO in screen at Media Device audio mode to standby for video signal input from Media Device.
2. You cannot operate the Media Device video playback functions by this unit. You should operate the video playback functions by your Media Device.
3. If you want to go back to Media Device audio mode, press Audio on screen.

Media Device SETUP

1. Press SETUP in screen to open Media setup menu display.
2. Press ◀ , ▶ by Auto Connect menu bar to select On/Off. The default is On. If you select Off, when you connect iPod to this unit, the mode will not automatically be changed, while you should switch the mode manually.

Troubleshooting

Problem	Cause	Corrective Action
No power to unit	Fuse(s) blown	Check/replace fuse(s) in vehicle fuse box
No sound can be heard or the volume is low	Speakers are not wired correctly	Connect speaker harness; check speaker wires
	Speaker wires shorting to chassis ground or to each other	Check splices, insulate all bare wires
	Fader or Balance incorrectly adjusted	Check audio settings
	AV1 or AV2 not wired correctly	Check wiring
Will not read disc	Disc is upside down	Insert disc right side up
	Disc is dirty	Clean/inspect disc
	Format not supported by player	Insert correct disc format
The sound "skips" during disc play	Disc is dirty	Clean/inspect disc
	Receiver mount is not solid or backstrap is not secure	Check mounting and backstrap, tighten if needed
DVD will not play on main screen	Parking brake not applied	Apply parking brake
Remote control does not work	Batteries are weak	Check/replace batteries
	Sunlight is interfering with infrared sensor	If sunroof is allowing too much light, close it partially or fully.
		Close windows
The display is dark	Direct sunlight reflecting off screen	Close windows and/or sunroof
	Color/Brightness settings incoreect	Adjust Color/Brightness settings
Touch points in screen are not correct.		Adjust the touch points at setup mode.

Specifications

CEA Power Ratings

Power Output: 18watts RMS x 4channels into 4-ohms @ < 1% THD+N
Signal to Noise Ratio: 90dBA below reference
(Reference: 1watt, 4ohms)
Dynamic Power: 36watts @ 4ohms x 4channels
Frequency Response: 20Hz ~ 20kHz (-3dB), Audio/Video input used
as source reference Standard Power Supply: 14.4 VDC

CD/DVD Player

Compatible Disc: CD-R, CD-RW, DVD-R, DVD-RW
Compatible Format: DVD-VIDEO, SVCD, VCD, CDDA, MP3, WMA,
                                JPEG, MPG, MP4, DAT, AVI
Signal to Noise Ratio: > 90dBA
Frequency Response: 20Hz ~ 20kHz, -3dB
Channel Separation: > 60dB @ 1kHz
D/A Converter: 24BIT

SD Card

Compatible Format: MP3, WMA, JPEG, MPG, DAT, AVI

Video Format

CODEC	FILE TYPE	Bitrate (upto)		Resolution	Frame/sec
		DISC	USB/SD		
MPEG1	*.MPG	~4Mbps	~1.5Mbps	352 x 240	30fps
	*.DAT	~4Mbps	~1.5Mbps	352 x 240	30fps
MPEG2	*.VOB	~4Mbps	~1.5Mbps	720 x 480	30fps
	*.MPEG	~4Mbps	~1.5Mbps	720 x 480	30fps
MPEG4		~2 5Mbps	~1 5Mbps	720 x 480	30fps

Subtitle Format

SMI / SRT / TXT / PSB / ASS / SSA / SUB
English 58 letters / Korean 29 letters
Name of Video file and Subtitle file should be the same.

   * It can be not playable according to the video file's types or
      recording ways.

Video

Format: NTSC/PAL/AUTO
Output: 1 Vp-p (75ohm)
Input: 1 Vp-p (75ohm)

FM Tuner

Tuning Range: 87.5 - 107.9MHz
Mono Sensitivity (-30dB): 9dBf
Quieting Sensitivity (-50dB): 15dBf
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1kHz: 58dB
Image Rejection: 60dB
Stereo Separation @ 1kHz: > 30dB
Frequency Response: 50Hz ~ 15kHz, -3dB

Specifications

AM Tuner

Tuning Range: 530 ~ 1720kHz
Sensitivity (-20dB): 30uV
Signal to Noise Ratio @ 1kHz: 50dB
Image Rejection: 60dB
Frequency Response: 50Hz ~ 2kHz, -3dB

Monitor

Screen Size: 7" (Measured diagonally), 16:9 Widescreen
       7"(145mm)H x 3.5"(89mm)W
Screen Type: TFT Liquid Crystal Display (LCD) Active Matrix
DVD Player: 480(H) x 234(W) X 3(RGB)
Back Light: CCFL, 400cd/m2

General

Audio Input Impedance: 10k
Power Supply: 11~16 VDC, negative ground
Fuse: 10amp, ATO type
DIN chassis dimensions: 178mm(W) x 160mm(D) x 50mm(H)

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Valor Warranty Validation Dept
18061 Arenth Ave
City of Industry . CA 91748

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ONE YEAR LIMITED WARRANTY

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ONE YEAR LIMITED WARRANTY

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To obtain repairs or replacement within the terms of this warranty, please visit www.valormultimedia.com or contact us at 18061 Arenth Avenue;City of Industry, CA 91748 (626) 581-8900. Proof of warranty coverage (i.e. – dated bill of sale) and a valid serial number is required.

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Warranty Validation Card

Please complete all fields to validate your Valor Multimedia limited warranty. Remember to include a copy of your dated sales invoice. Failure to return this card will result in warranty coverage starting on the date of manufacture based on your serial number. Special warranty provisions will only be honored if this card is returned complete. Limitations to warranty periods and exclusions may not apply to your area if applicable by law. Please check with your local regulatory offices for details regarding warranty regulations in your area.

NAME		DATE
SHIPPING ADDRESS (NO PO BOXES)		CITY
STATE	ZIP CODE	PHONE NUMBER

RETAILER NAME	RETAILER ADDRESS	RETAILER PHONE NUMBER
PRODUCT PURCHASED	PRODUCT SERIAL NUMBER	DATE OF PURCHASE

Why did you choose a Valor Multimedia product?
- ☐ Appearance
- ☐ Value
- ☐ Features
- ☐ Brand Name
- ☐ Other _____

How was your product acquired?
- ☐ Gift
- ☐ Internet Retailer
- ☐ Standard Retailer
- ☐ Specialty Store
- ☐ Mass Merchant / Discount Retailer

Where will this product be used?
- ☐ Personal Automobile
- ☐ RV
- ☐ Commercial Vehicle
- ☐ Other _____

How long have you owned your vehicle?
- ☐ Brand New
- ☐ < 1 year
- ☐ 1 - 2 years
- ☐ 3 - 5 years
- ☐ > 5 years

Would you buy another Valor product?
- ☐ Yes
- ☐ No

Would you recommend a Valor product?
- ☐ Yes
- ☐ No

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